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AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-14-03** **Date: 19-03-17**
Customer	:	Asisstant Executive Engineer,Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 1st Main Nanjappa Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri. N. Lokanathreddy No:05, 1st Main, 7th B Cross, Kaverinagara, 'A' Block, Kavalbyasandra, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/218/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-03-17
Sample ID No	:	2017-03-14-03-04
Sample Type	:	JSW Steel 550 Fe
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	16-03-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	JSW	Fe500	10mm	0.615	552	665	21.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	JSW	Fe500	10mm	Satisfactory	Satisfactory

Note:
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All information furnished by Customer/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signature
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರ ಕಚೇರಿ
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ,
ಜಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-97
Sadhu
AE

End of Report

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-02-22-05** **Date: 25-03-2017**
Customer	:	Asisstant Executive Engineer,Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 1st Main Nanjappa Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri. N. Lokanathreddy No:05, 1st Main, 7th B Cross, Kaverinagara, Kavalbyasandra, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/218/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-05-17
Sample ID No	:	2017-02-22-05-01
Sample Type	:	Zuari 53 Grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	24-02-2017 to 24-03-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.2	–
2	Finess by Air permeablity method (m2/kg, Min)	291.5	225m^2/kg, Min
3	Density (gm/cc)	3.19	–
4	Standard Consistency (%)	27.5	Not specified
5	Initial Setting time	255 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-02-22-05** **Date: 25-03-2017**

Sample ID No : **2017-02-22-05-01**

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	330 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2.0mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
	28 Days	56.5N/mm^2	Not less than 53 N/mm^2

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Prepared by
Harshitha

FOR CIVIL Pro.

CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Jodha
AE

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-14-03** **Date: 24-03-2017**
Customer	:	Asisstant Executive Engineer,Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 1st Main Nanjappa Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri. N. Lokanathreddy No:05, 1st Main, 7th B Cross, Kaverinagara, 'A' Block, Kavalbyasandra, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/218/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	14-03-17
Sample ID No	:	2017-03-14-03-01(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	14-03-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	80 mm	0	0	0	100	100
2	40 mm	150	150	3	97.0	95-100
3	20 mm	2300	2450	49	51.0	30-70
4	10 mm	1590	4040	80.8	19.2	10-35
5	4.75 mm	850	4890	97.8	2.2	0-5
6	Pan	110	5000	100	0.0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-14-03** **Date: 24-03-2017**

Sample ID No : 2017-03-14-03-01(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	12.1	_
2	Elongation Index(%)	11.3	_
3	Specific Gravity	2.62	_
4	Bulk Density(Loose) (Kg/l)	1.50	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.29	_

Note:

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Prepared by
Harshitha

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-14-03** **Date: 24-03-2017**
Customer	:	Asisstant Executive Engineer,Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 1st Main Nanjappa Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri. N. Lokanathreddy No:05, 1st Main, 7th B Cross, Kaverinagara, 'A' Block, Kavalbyasandra, Bangalore-560032.
Customer Reference	:	BBMP/EE/BTP/WO/218/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-03-17
Sample ID No	:	2017-03-14-03-01(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	14-03-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	40 mm	0	0	0	100	100
2	20 mm	198	198	3.96	96.0	95-100
3	10 mm	2260	2458	49.16	50.8	25-55
4	4.75 mm	2380	4838	96.76	3.2	0-5
5	Pan	162	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-14-03** **Date: 24-03-2017**

Sample ID No : 2017-03-14-03-01(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	12.4	_
2	Elongation Index(%)	11.9	_
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.52	_
5	Bulk Density(Compacted) (Kg/l)	1.54	_
6	Water Absorption(%)	0.24	_
7	Ten percent fine value(KN)	198	_
8	Aggregate crushing Value(%)	20.4	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements
9	Aggregate Impact Value(%)	22.8	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements

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Prepared by
Harshitha

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FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

Sadha AE

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-14-03** **Date: 24-03-2017**
Customer	:	Asisstant Executive Engineer,Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 1st Main Nanjappa Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri. N. Lokanathreddy No:05, 1st Main, 7th B Cross, Kaverinagara, 'A' Block, Kavalbyasandra, Bangalore-560032.
Customer Reference	:	BBMP/EE/BTP/WO/218/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-03-17
Sample ID No	:	2017-03-14-03-01(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	14-03-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	40 mm	0	0	0	100	100
2	20 mm	198	198	3.96	96.0	95-100
3	10 mm	2260	2458	49.16	50.8	25-55
4	4.75 mm	2380	4838	96.76	3.2	0-5
5	Pan	162	5000	100	0	_

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-03-14-03** **Date: 24-03-17**
Customer	:	Asisstant Executive Engineer,Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 1st Main Nanjappa Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri. N. Lokanathreddy No:05, 1st Main, 7th B Cross, Kaverinagara, 'A' Block, Kavalbyasandra, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/218/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-03-17
Sample ID No	:	2017-03-14-03-02
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Observation
Date of test	:	14-03-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	9	9	0.9	99.1	90-100	90-100	90-100	95-100
3	2.36 mm	48	57	5.7	94.3	60-95	75-100	85-100	95-100
4	1.18 mm	67	124	12.4	87.6	30-70	55-90	75-100	90-100
5	600 micron	287	411	41.1	58.9	15-34	35-59	60-79	80-100
6	300 micron	298	709	70.9	29.1	5-20	8-30	12-40	15-50
7	150 micron	201	910	91	9	0-10	0-10	0-10	0-15
8	Pan	90	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

Sodha
AE

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-03-14-03** **Date: 24-03-17**

Sample ID No : 2017-03-14-03-02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970 (RA2016)
1	Water Absorption(%)	3.28	_
2	Specific Gravity	2.54	_
3	Material finer than 75 micron (%)	3.5	Not more than 15 percent

Note:
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Harshitha

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Authorized Signatory
Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-14-03** **Date: 19-03-17**
Customer	:	Asisstant Executive Engineer,Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 1st Main Nanjappa Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri. N. Lokanathreddy No:05, 1st Main, 7th B Cross, Kaverinagara, 'A' Block, Kavalbyasandra, Bangalore-560032.
Customer's Reference	:	BBMP/EE/BTP/WO/218/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-03-17
Sample ID No	:	2017-03-14-03-03
Sample Type	:	JSW Steel 550 Fe
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	16-03-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	JSW	Fe500	8mm	0.392	538	610	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	JSW	Fe500	8mm	Satisfactory	Satisfactory

Note:
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Harshitha

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-16-03** **Date: 10-04-17**

Customer : Asisstant Executive Engineer,Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at 1st Main Nanjappa Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri. N. Lokanathreddy No:05, 1st Main, 7th B Cross, Kaverinagara, 'A' Block, Kavalbyasandra, Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/218/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-03-17

Sample ID No : 2017-03-16-03-01

Customer ID : Drain Concrete

Sample Type /Size : CC Cube (150X150X150 mm)

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	13/03/2017	10/04/2017	150.37 X 150.24 X 150.22	22592	8.220	551.2	24.4	24.0
2	Drain Concrete	M20	13/03/2017	10/04/2017	150.46 X 150.32 X 150.98	22617	8.298	536.0	23.7	
3	Drain Concrete	M20	13/03/2017	10/04/2017	150.26 X 150.89 X 150.23	22673	8.398	541.9	23.9	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-16-03** **Date: 21-03-17**

Customer : Asisstant Executive Engineer,Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at 1st Main Nanjappa Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri. N. Lokanathreddy No:05, 1st Main, 7th B Cross, Kaverinagara, 'A' Block, Kavalbyasandra, Bangalore-560032.

Customer's Reference : BBMP/EE/BTP/WO/218/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-03-17

Sample ID No : 2017-03-16-03-01

Customer ID : Drain Concrete

Sample Type /Size : CC Cube (150X150X150 mm)

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/03/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	13/03/2017	20/03/2017	150.44 X 150.34 X 150.87	22617	8.150	325.7	14.4	15.2
2	Drain Concrete	M20	13/03/2017	20/03/2017	150.21 X 150.21 X 150.29	22563	8.218	343.0	15.2	
3	Drain Concrete	M20	13/03/2017	20/03/2017	150.77 X 150.35 X 150.89	22668	8.299	360.4	15.9	

Note:
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Harsitha

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FOR CIVIL Pro.

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Quality Manager

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